| Notice of Allowability | Application No. | Applicant(s) | V |
|--|--|---|-----------|
| | 10/074,569 | KOVARSKY, NICOLAY | |
| | Examiner | Art Unit | |
| | Arun S. Phasge | 1753 | |
| The MAILING DATE of this communication apperation apperation all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to amendment filed 9/20 2. The allowed claim(s) is/are 1-5,7-25,28-35,38-47 and 49-50 3. The drawings filed on 9/20/04 are accepted by the Examine 4. Acknowledgment is made of a claim for foreign priority unes a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 1. International Bureau (PCT Rule 17.2(a)). | ears on the cover sheet wat (OR REMAINS) CLOSED or other appropriate comming GHTS. This application is and MPEP 1308. 2004. B. ear. der 35 U.S.C. § 119(a)-(d) been received. been received in Application | ith the correspondence address n this application. If not included nunication will be mailed in due course. I subject to withdrawal from issue at the i or (f). | nitiative |
| * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submit the COMMAN PATENT APPLICATION (DTO 152) which gives | ENT of this application. tted. Note the attached EX | AMINER'S AMENDMENT or NOTICE C | |
| INFORMAL PATENT APPLICATION (PTO-152) which give 6. CORRECTED DRAWINGS (as "replacement sheets") mus | | r declaration is deficient. | |
| (a) including changes required by the Notice of Draftspers | on's Patent Drawing Revie | w (PTO-948) attached | |
| 1) hereto or 2) to Paper No./Mail Date | | | |
| (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date | | | |
| Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the | 84(c)) should be written on the header according to 37 C | he drawings in the front (not the back) of FR 1.121(d). | |
| DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I | SIT OF BIOLOGICAL MAT FOR THE DEPOSIT OF BI | ERIAL must be submitted. Note the OLOGICAL MATERIAL. | |
| Attachment(s) | | | |
| 1. Notice of References Cited (PTO-892) | 5. Notice of I | formal Patent Application (PTO-152) | Ī |
| 2. Notice of Draftperson's Patent Drawing Review (PTO-948) | | ummary (PTO-413), /Mail Date | |
| 3. Information Disclosure Statements (PTO-1449 or PTO/SB/06 Paper No./Mail Date | 8), 7. Examiner's | Amendment/Comment | |
| 4. Examiner's Comment Regarding Requirement for Deposit | | Statement of Reasons for Allowance | |
| of Biological Material | 9. | · | |

Application/Control Number: 10/074,569

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REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: none of the prior art of record fairly discloses or renders obvious the claimed method and apparatus for the maintenance of the copper plating solution comprising supplying an electrolyte solution to a copper plating cell, plating copper and removing the used electrolyte solution from the plating cell and refreshing a portion of the plating solution with an electrodialysis cell, said cell having anode and cathode and at least one concentration chamber.

As stated in the response the reference does not disclose the plating onto a semiconductor substrate. Additionally, the solution refreshed by the Oka patent would not be the same solution refreshed by the present application, since there is no concentration of copper sulfate in the concentration compartment, rather the sulfate ions are removed from the copper-plating bath along with formate ions.

With respect to the obvious type double patenting claims, applicants argue that a two-way obviousness was not shown. A two-way obviousness is not required in the making of a provisional rejection between two application, that one was filed earlier is not relevant. In any event, it is proper when the only rejection outstanding is an obviousness type double patenting to allow one of the applications

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(here the first filed application), while a rejection should be made in the copending application.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arun S. Phasge whose telephone number is (571) 272-1345. The examiner can normally be reached on MONDAY-THURSDAY, 7:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam X Nguyen can be reached on (571) 272-1342. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Arun S. Phasge

Primary Examiner

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